



OTVARC

April, 1982

OREGON TUALATIN VALLEY AMATEUR RADIO CLUB
Po Box 5132 Beaverton, Oregon 97006

Meeting: Wednesday, April 21 at 7:00 pm.....
Coffee-Orange juice-Cookies at BREAK time....

PGE AUDITORIUM-MURRAY AND SCHOLLS FERRY ROAD-BEAVERTON

President:	Dick Powers	WB7ADM	Trustee:	Bob Orr	KB7CC
Vice-Pres:	Randy Cobb	KA7HJT	Trustee:	Mark Walker	W7CLU
Secretary:	Linda Cereghino	N7CZY	Trustee:	Al Berg	WB7SIC
Treasurer:	Warren Knight	N7BIJ	Trustee:	Roger Steyaert	K7RXV
			Trustee:	Bill Whiting	WA6VPA

Well, it says in fine print that you can't win them all. The Marissa program did not really measure up to our standards but the informational value of what it takes to have a repeater system may have been of value to some of the members. We have finally come up with a program chairman so perhaps we can look forward to some highly informative presentations. Picking programs is a pretty tough job. We have a membership with very diversified interests and when you couple that with our desire to have some of the programs of interest to the non-ham, it becomes even more difficult. Good luck to our new program chairman, Dave, W7LJN. Hmmm. Our March meeting was great! Had a ball during the social break and met quite a few newer members. Sure hope that you did the same. The coffee pot came out about even and the 'Crazy Quad' made sure that the raffle paid for itself. Once again we must thank Portland Radio for their generous donations to our raffle. It means a great deal both to our 'winners' and the club treasury. It might be a good idea, for a change, to thank the MEMBERS for such a fantastic support of the raffles. Dollars are becoming difficult to come by and YOUR willingness to buy tickets is really appreciated. By the way, Dennis, AI7G, won the 'Door Prize'! It was a real honest to goodness door. Not in very good shape but a real door. Wonder what he did with it?? Has anybody given any thought to the club library? Bill, WB7NPH, has it pretty well put together. A whole wall in his shack has been filled with a wealth of technical information. If the library doesn't get any use, what shall we do with it? A public library donation may be in order! Perhaps if Bill could fill us in at a meeting on just what is available and get some member interest stirred up? We could use some added interest in our space for members 'For Sale or Trade' section of the newsletter. With the added page for commercial advertising, we have double the room for YOUR use. The ads have been fairly effective. We even helped one member sell a Yaesu 101 txcvr. Just mail your ad info to the club po box or to the editor and make sure it's here by the first of the month in which you would like it to appear. PLEASE TAKE THE TIME TO READ THE PROPOSED BY-LAW AND CONSTITUTION CHANGES. YOU ARE BEING INFORMED WELL IN ADVANCE SO THAT YOU MAY VOTE WITH FULL KNOWLEDGE OF THE PROPOSED CHANGES EFFECT ON THE CLUB.... DON'T "Let George do it" AND THEN START GRIPING BECAUSE IT DIDN'T GO THE WAY YOU WANTED IT. VOTE WITH INTELLIGENCE. READ IT!!!!

RUSTY KEY CONTEST RESULTS

Rusty Key Contest logs from the January contest are in. Freindly competition was stiff, signatures gathered influenced the outcome. Results of the 'test will be announced and Prizes awarded at the April meeting. A drawing will also be held from the logs submitted, for a nice prize. All stations who submitted contest logs will recieve a unique certificate.

A review of the R.K. logs showed about 30 stations actually participated in the contest. Of these stations 33% were Extra calls, and 6% were Novices or Techs. Anyone who can copy code at 5wpm could win a R.K. contest and it's a mystery why more Novices and Techs don't participate. It's a perfect opportunity to get your feet wet in C.W. or to renew half-forgotten skills. The exchanges are short and sweet, and everyone will gladly go slow for your contact.

If you missed the fun, May 20 is your next chance. Thursday evening following the May meeting, 7:00pm to 10:00pm. 21.1 to 21.2 MHz. The 15 meter Novice band should be open, and no signature gathering for this contest. Outlying stations have an opportunity to participate. (N4BOS?) See May Newsletter for details.

John Koenig--N7CRP

DID YOU KNOW?

From Minnesota MARS Newsletter

1. Your eyes can distinguish nearly eight million differences in colors?
2. If all 600 muscles in your body pulled in one direction, you could lift 25 tons?
3. You have skin cells in your stomach, eyes and lungs?
4. Every pound of excess fat you carry requires an extra 200 miles of capillaries?
5. More than half of your body's 206 bones are in your hands and feet?
6. Your eye and brain "build" color waves from energy?
7. Your ears can discriminate among more than 300,000 tones?
8. The surface area of your lungs is 1000 square feet, 30 times greater than the surface of your skin?
9. Your heart pumps more than 5 quarts of blood every minute, 2,000 gallons a day?
10. Your body produces one billion red blood cells every day.
11. Your digestive tract is 30 feet long.
12. One cubic inch of bone can withstand a two ton force.

NO POLICE NEEDED

Fellow hams, if you are out too late after a club meeting just because you craved a few of the good old brown 807's, here is a story to tell the YL: Call her on the phone and say, "Don't pay any ransom dear, I escaped and will be home in a few minutes."

BE SURE TO ATTEND PORTLAND RADIOS "KENWOOD DAY" ON APRIL 17. It will be a 'fun one'. Mark Sat., April 17 on your calandar and note that the store hours are '9 to 5'. While you are out and about you might consider giving a visit to some of our other fine advertisers: Make a day of it and take a tour!! Be sure to wear a RED jacket and bring money!!!!

* FIELD DAY NEEDS *

During the last field day we had the problem of one station interfering with another. We used antenna tuners- this helped but were difficult to keep tuned up.

The ideal solution is to have LO-PASS or BAND-PASS filters for specific bands. So we are asking if anyone in the club has any such filters to loan during next field day please contact:

ROGER STEYAERT/K7RXV

PS: We also need one more tower for field day.

Air Force vet had challenging career



ROY NUNLEY

(Photo by Brenda Cooper)

ex KH6IPX & now N7DUJ

By MARY MYLING

Rock Creek Editor, The Bridge

ROCK CREEK — Roy Nunley, a student here spent 20 years in the Air Force as an airplane mechanic. "My job was to work on aircraft engines," said Nunley.

"Every time you go out on a job it's a challenge. You have lives at stake and must make split-second decisions," he said. "You have to analyze the problem from what the pilot tells you."

In Japan, Nunley was working on a B-57 bomber the engine of which wouldn't start. "The planes were doing radiation-cloud analysis. We had 10 minutes to change the starter. We did it," said Nunley. "When we saw that aircraft break ground we felt 10 feet tall."

Changing a starter in 10 minutes is a tough job, according to Nunley, but it had to be done and done quickly. "That plane had a mission. It had to be off the ground in 10 minutes or the mission would have been aborted," said Nunley.

Nunley has been all over Asia, Vietnam, Japan and Midway. He spent one year in Vietnam working on helicopter gunships. "I got to see a lot of the world that no one else has seen," said Nunley. "The Air Force has been a great experience for me."

Nunley would rather travel aboard a plane than ride in an automobile. According to Nunley planes are much safer.

"When a plane goes down there's an automatic disaster because there's so many people aboard, but how often does it happen?" Accidents will be accidents, according to Nunley, and besides, how many freeway pile-ups occur every day? "There's no way you can take human error out of anything," said Nunley. "It will always be there."

"I've always been fascinated by the flying ability of the plane," he said. "I wanted to fly, too. In fact, I've always wanted to be a pilot. I have the ability to fly. I carried a card saying I could go into active flight duty at any time."

"I loved Japan," Nunley said. "The Japanese people are so humble and beautiful. I married a Japanese woman whom I met while I was there. We've been together for 18 years — happily, I might add."

Nunley has had two heart attacks, one in 1974 and one in 1979. "I'm completely disabled," he said. "I was getting tired of sitting at home so I decided to go back to school."

Nunley is studying music at Rock Creek. "I've always loved music," he said, "Anthony Turrietta is a very good teacher. I enjoy his classes."

IMPORTANT---CLUB JACKETS

We have six orders in hand and need four more before we can send the order in. For the newer members: We must have ten orders before we can submit to the supplier. You DO NOT HAVE TO PAY FOR THE JACKET UNTIL IT IS DELIVERED!!! If you have been thinking about ordering, please do so at the meeting. We would like to have as many red jackets at the Seaside Convention as possible. Besides, the six members who have had orders pending are getting anxious to wear red... Please help us out. This is the last order that will make them available by convention time. Thank you for your consideration.

DENTRON IS ALIVE AND HEALTHY

We have just received news that Dentron has recovered from Chapter 11 problems and is back in business at full bore. NOT ONLY THAT, they are going to exhibit at the convention!!!!!! How about that, folks. Not only are they going to exhibit, they are bringing SIX of their top staff members along. All the way from OHIO!! Two years ago, when Seattle was the scene of the National ARRL Convention, the Dentron factory was not in attendance. What does that tell you? They are making their first strong merchandising strides in the northwest and it will be in Seaside. This is a real plus for us and for our convention guests. I hope that other newsletter editors will pick up on this.....

OREGON TUALATIN VALLEY AMATEUR RADIO CLUB INC.

Resolution by Board of Directors

The undersigned, being all of the duly elected Directors of the Oregon Tualatin Valley ARC, hereby adopt the following resolution:

Whereas, some of the members have expressed a desire to have the duties and responsibilities of the Nominating Committee further defined and modified, the President appointed a special committee to study the matter. The committee made recommendations that were adopted by the Board of Directors in the form of the following resolutions:

Now therefore it is resolved that:

Article 3 paragraph 10 of the By-Laws shall be ammended to read as follows:

Prior to the annual elections, the President shall appoint the immediate past president, or the highest ranking officer not running for re-election, to chair the Nominating Committee. The chairperson shall then select two members, not current officers, to serve on the committee. The two members selected must have been OTVARC members for a period of at least one year.

The committee must present one but not more than four screened candidates for each office.

The committee is directed to present their nominations without comment nor endorsement.

The list of nominees presented by the Nominating Committee must be confirmed by a motion to accept from the floor.

The nominations must be published by the Nominating Committee in the October issue of the newsletter.

Be it further resolved that Article 2, Section D of the Constitution should be ammended to read:

"Officers may be removed by a two-thirds vote of the regular membership present."

Be it further resolved that Section 7 of the By-Laws should read as follows:

"Resignation of an officer position shall be in writing unless disqualified by expulsion or dereliction of duty as voted upon by two-thirds of the regular membership present."

These resolutions shall be submitted to a vote at our meeting on May 19, 1982 and shall be adopted if two-thirds of the members voting at said meeting so approve. These resolutions shall be printed in full in the April, 1982 issue of the OTVARC newsletter to notify members of the vote to be taken.

Resolved this 4th day of February, 1982.

Pres. Dick Powers WB7ADM

V-Pres. Randy Cobb KA7HJT

Sec. Linda Cereghino N7CZY

Treas. Warren Knight N7BIJ

Trusttee Bob Orr KB7CC

Mark Walker W7CLU

Roger Steyaert K7RXV

Al Berg WB7SIC

Bill Whiting WA6VPA



Go on Field Day

George Anderson, W7ON

Are you new to Amateur Radio and wonder what Field Day is all about? Perhaps you're an old-timer who is still wondering. Wonder no more because you are about to learn how Field Day encompasses more aspects of Amateur Radio than anything else you could do. No matter what your age, ability, experience, license class or interest, there is something for everyone. You don't even have to be licensed yet to participate! Field Day is the most popular Amateur Radio event of the year with thousands of amateurs participating all over the United States.

But, you say, I still haven't told you what Field Day is. Let me try. Once a year, on the last weekend in June, amateurs nationwide pack up their portable and emergency gear and head for the field (or a mountain top), set up camp, and try to contact as many other similar groups as possible over a 24-hour period.

Most amateur frequencies and modes are used, including the OSCAR satellite. Emergency power is typically coaxed from a reluctant generator, but more recently such sources as solar panels and windmills have been used.

The idea behind Field Day is an emergency preparedness exercise that encourages amateurs to maintain portable communications equipment and to develop operating skills under difficult conditions. In the event of natural disasters, which seem to occur all too frequently, amateurs are usually the only source of immediate rescue and health/welfare communication. There is seldom commercial power available.

Got the picture yet? Field Day sounds like it has a great purpose, but what do you actually do? Although there is a serious purpose to Field Day, the actual fun (and funny) activities of setting up a communications camp sometimes turns into a battle with Murphy. You cannot imagine the ingenuity required when the antenna part you need was left at home or the guy rope is 10 feet too short. Have you ever spent hours erecting an antenna 40 feet up only to discover that you forgot to solder the coax center conductor? Of course, you don't discover this until 3:00 a.m. during the middle of the contest.

Did I say contest? Yes, Field Day is also an ARRL contest with rules, points, multipliers and some of the most competitive operation you may ever experience. If you have never tried a contest before, here is your chance. Don't feel shy. Most everyone else at Field Day is not an experienced contesteer either. At least not at the beginning.

What about that 40-meter log periodic you read about, but that won't fit in your backyard? Build it and try it in the large outdoors. Experiences and experimenting are limitless on Field Day.

Although some go it alone, most everyone goes to Field Day with a group. Sometimes it's a small group, but usually it is your local club members, families, friends, or anyone who wants to tag along. Depending on the group's size, there are typically two to six stations set up and operated simultaneously. This creates a lot of operating and technical challenges that are solved only by team spirit and cooperation. The camaraderie that develops lasts beyond Field Day, and many times provides new amateurs with a unique opportunity to find an Elmer. What is an Elmer? Well, that's the title of another article.

I've only been able to touch on the highlights of Field Day. You must share the experience yourself to get the complete definition. How about giving it a try this year? The dates are 26-27 June.

— Arizona Desert AIRE Waves. □

Go-Go-Go-Go
To field day !!!

You may have been to field day before but if you haven't been to an OTVARC field day you haven't lived!! The FUNNEST, EXCITINGEST, OPERATINGEST event you will ever experience. Doubtful? Show up and see!!!!

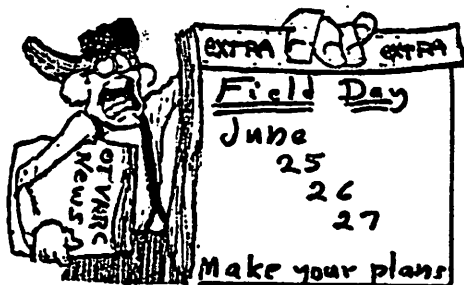
NEW ARRL OFFICERS—THE BIGGEST SINGLE CHANGE IN ARRL HISTORY

DAVE SUMNER REPLACES BALDWIN AS ARRL GENERAL MANAGER

The Selection Commission did its job, the search is over - and in the end, Dick Baldwin's assistant, Dave Sumner, K1ZZ - the League's Assistant General Manager for Membership Development won out over five other finalists for the position. The ARRL Board of Directors selected Dave as the new Headquarters General Manager on March 18th.

VIC CLARK, W4KFC, SUCCEEDS HARRY DANNALS AS LEAGUE PRESIDENT

The ARRL released the following bulletin on March 20th. "The Board of Directors of the American Radio Relay League met in Hartford, Connecticut, ~~May~~ ^{March} 18 & 19 and the following officers were elected for the 1982/1983 term. Victor C. Clark, W4KFC, President; Carl L. Smith, W0BWJ, First Vice President; Larry E. Price, W4RA and Garfield A. Anderson, K0GA, additional Vice Presidents and Richard L. Baldwin, (outgoing League General Manager) Vice President for International Affairs; Dave Sumner, K1ZZ, (the new G.M.) Secretary, and James E. McCobb, Jr., K1LLU, Treasurer. Elected to the Executive Committee were Directors A. Mitchell Powell, VE3OT; Jay A. Holladay, W6EJJ, William J. Stevens, W6ZM, and Paul Grauer, W0FIR. Richard L. Baldwin was recommended for president of the International Amateur Radio Union subject to vote of the IARU member societies.



WORLD RADIO--A BENEFACTOR

We have entered into a Worldradio subscription plan and it will be very helpful to the club. For a very low price, we get listed in their club directory. Listing includes our meeting place, date and time. The best part is that we get 12 gift subscriptions to give away at our raffles. Along with this, we get an issue to use for newsletter articles and as a capper, if you subscribe through the club, we get to keep \$1.00 of the \$9.00 per year subscription price. Just as with the ARRL, make your check out to OTVARC and our treasurer will send along the required fee for you. It is really a neat rag with scads of news.....

STATIC ELECTRICITY (snap-pop)

Static electricity can be a nuisance or a hazard in the home, on the job, in travel, with radio equipment or in nature. It can cause fires and explosions, interrupt radio communications and disrupt life in many other ways. Static electricity is generated by the contact and separation of materials. Drops of gasoline falling through the air as one fills an automobile or tractor gas tank can generate enough static electricity to cause an explosion and fire. Several thousands of volts can be generated by running a comb through dry hair, dust particles through the air, or even rain drops through the air. (lightning) Up to 100 bolts of lightning strike the earth every second. The temperature in a lightning bolt can reach 50,000 degrees F, more than four times as hot as the surface of the sun. A single bolt can deliver as much as 100,000 amps. Ten volts of static electricity per inch is sufficient to excite a fluorescent tube. The combination formula consists of heat, fuel and oxygen and as in a triangle, static electricity is frequently the 'heat' leg of this fire triangle. Heat is the energy supplied to the fire angle and static electricity can supply the energy.

When a charged cloud passes over the ground a reverse charge will be built up in the ground. If this difference in potential is great enough, a lightning discharge will result. If the ground charge can 'bleed off' without a sudden discharge, no lightning will occur. Lightning rods or tall metal objects can frequently provide this safe 'bleed off' path.

Antennas can develop considerable charge if not properly by-passed to ground. If your antenna is not at 'DC ground' and a charged cloud passes overhead, a potential difference will develop between the cloud and your antenna and between the antenna and ground. This charge may be carried from the antenna through the coax and through your radio equipment before it is neutralized. If you remove the coax from the gear, the center conductor can form an open circuit to the ground and when the potential builds sufficiently, a spark will result. Prevention can be accomplished by bonding. When two objects are bonded together (conductive bond) they are at common potential and static sparks cannot develop. arms

A TRAGIC DEATH

Ralph Karls, WB7VGS, was out trimming down a tree that had died and discovered a section of coax in the upper branches. Being a curious person, Ralph did a fast dissection of the coax and, sure enough, he discovered that it had been left by a CB'er and it was contaminated with '10-4 good buddies'. The tree, obviously, did not have a chance and suffered a terrible end. It may be a very good idea, for those of you who have 11m gear, to make sure that your coax is not resting on a live object and also, as a safety precaution, keep it at least 20 or 30 wavelengths away from your ham gear. Trees take a long time to mature. So do some hams!! Thanks to Ralph for his important technical contribution.....

FLASH: N7CRQ won the club Bunny Hunt and, as such, will be the bunny at our next search. He stated that he would drive around Washington County until he got lost and then just pray that someone will find him and show him how to get home. Mark, just in case no one shows up, take a survival kit with you. We have no insurance!!!!

DISASTER COMMUNICATIONS FREQUENCIES ANNOUNCED BY COMMISSION

In an anticipated move, the FCC allocated and assigned 2, 5 and 7 MHz. frequencies from the Local Government Radio Service for use by states for disaster response communications. The authorization is for the 48 "contiguous states only" (i.e: except Alaska and Hawaii.) The FCC notice said that these frequencies "would be initially available" which indicates additional spectrum might be allocated later as needed. In the past, most temporary emergency communications took place on amateur spectrum - or as part of the old Part 99 Disaster Communications Service.

The new disaster plan called SECURE (for State Emergency Capability Using Radio Effectively) got it start about a year ago when the FCC documented the need for a medium and long-range communications capability to respond to disasters. While many felt that the new service should be manned by amateur radio operators, the FCC did not specify this - although they did "encourage their consideration in state disaster planning." The ARRL submitted comments on the SECURE program on behalf of the amateur radio community.

The frequencies to be used are in the 2 to 10 MHz high frequency band and include 18 channels between 2326 and 2812 kHz, 5 channels between 5135 and 5195 kHz and 4 channels between 7802 and 7935 kHz. The 26 channels will allow varying degrees of predictable communications coverage - from local to approximately 700 miles and beyond. The maximum power limitation is 1 kW with "2.8A3J" (upper single sideband) emission type. Radio teletype is also being allowed. Fixed, Base and Mobile stations were authorized with mobiles and base stations being allowed on the 2 MHz band only. A fixed station is defined as a permanent radio station that communicates between specified fixed points. A base station is a land station that communicates with mobiles.

The states that elect to participate in the Disaster Response Communications program are being required to submit disaster plans that indicate....

- 1: A network system diagram that shows "methods of deployment to all parts of the state" and emergency power available....
- 2: An indication of which state governmental body will be the "controlling authority"....
- 3: A schedule of proposed drills and/or exercises (not to exceed 60 minutes per week) by the participants....
- 4: The frequencies that will be used in each band as part of their program....
- 5: The distances that are expected to be covered within the state....
- 6: The adjacent states that will be coordinated and/or communicated with during an emergency....
- 7: The "point of contact" for emergencies involving more than one state....
- 8: The common frequency band(s) and number of frequencies in each band required for interstate communication and the point(s) of contact for these adjacent states....
- 9: The format and emission parameters of radio teletype transmissions to be used for interstate communications.

To eliminate confusion of the identities of the operating stations, the Commission said that they will be issuing separate call signs for mobile, fixed or temporary base stations. An application using FCC Form #400 is being required for each permanent fixed/base station, plus one for all temporary base and one for all mobile stations. The FCC indicated that this would allow them to identify quickly, for interference purposes, any station in the system. The SECURE program presents a golden opportunity for amateur radio operators to participate in state disaster response programs. If your state has such a program or is thinking of participating, you might volunteer your (or your club's) services to maintain the reputation of the amateur community as one that is ready to help in time of emergency. W5YI



NEWS

BULLETIN

ARRG NEWS

(South Saddle Repeater)

Thought it might be timely to do a little ditty on the best repeater system in the state. ARRG now offers a family membership package and this will help a great deal if you happen to have two or more hams in the fold. The cost to an individual, for autopatch use, is \$20.00 per year and if you have need for the family rate it is \$30.00. Repeater frequencies offered are 147.92/32, 222.90/224/.50, 146.04/64 and a brand new 443.875/448.875 repeater for the lucky few with Icoms new IC4AT. If you have a desire to use 92/32 autopatch facilities, mail your check to: ARRG at P. O. Box 10031 in Portland. Zipper is 97210.

147.92/32 open codes

- *911-Washington County Dispatch
- *912-City of Portland Dispatch
- *913-Oregon State Police
- *914-Washington County
non-emergency
- *915-Multnomah County Sheriff
- *916-Clackamas County Sheriff

The 911 EMERGENCY # will allow a 15 minute use of the rprr.. Washington County will relay to neighboring jurisdictions. All numbers are third party traffic so please clear with the repeater legally. Time, date and name of the third party. Clear with W7LJN. Use it but don't abuse it! Thank you and 73.....

COMING CLUB ACTIVITIES

- April 21-Club Meeting
- April 22-Sink The Bismark
- May 8-9--Clark County Ham Fair
(club booth)
- May 19---Club Meeting
- May 20---Rusty Key Contest
- May 22---Bunny Hunt
- June 4-6-CONVENTION
- June 16--Club Meeting
- June 17--Sink The Bismark
- June 25-27-FIELD DAY

Public service events when and where requested. Any ideas??
Ham fairs listed on another page.

KERCHUNKING???

Dave, W7LJN, was heard making the statement that he always kerchunks the repeater before using it, just to make sure it is up. Well, he either has no trust in the ARRG engineers or we are setting up a new KERCHUNKING policy. As Dave is the President of ARRG and also has his call on the repeater, we must accept his comments as gospel. Perhaps, next month, he will have a 'letter to the editor' to clear the air on the subject. Sure hope so!!!!

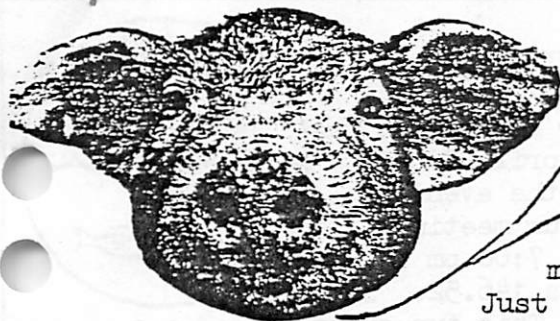
ADVERTISING TERMS

- ALL NEW: Parts are not interchangeable with previous design.
- DESIGN SIMPLICITY: Manufacturers cost is cut to the bone.
- FOOLPROOF ADJUSTMENT: No provision for same.
- ADVANCED DESIGN: Ad writer doesn't understand.
- FIELD TESTED: No bench test equipment
- HIGH ACCURACY: All parts fit correctly.
- DIRECT SALES ONLY: Manufacturer had argument with the distributor.
- RUGGED: Too heavy to lift.
- LIGHTWEIGHT: Lighter than rugged.
- UNMATCHED: Almost as good as the competition.
- YEARS IN DEVELOPMENT: Finally got one that will work.
- BREAKTHROUGH: Figured out a way to sell it.
- DISTINCTIVE: A different color and shape than the competition.
- PROVEN PERFORMANCE: Will operate through the warranty period.

Courtesy CCARC and others.....

SPECIAL RUG RAFFLE

We have a brand new and beautiful rug to give away at the meeting. It has a couple of smaller matching rugs with it. Value is about \$250.00. Donor is Dan Dobson, N7DAF. SUPER gesture Dan...



HOWDY
COUSIN !

NEW MEMBERS

Here we go again with a big increase in membership. We just keep on growing. Does

anyone know how many hams we have in our area? It might be wise to start looking for a new meeting place!?

Just kidding! We give our usual three cheers to the new members.... Welcome to: Bob Fitzpatrick, KC7PL-Jim McVein,

KA7MDF-Ross Scott, WA7ZSX-Lee Wooldridge, KA7FEH-Ron Remsen, W7YOW-Steve Sellers, KA7KAU-Cameron Litvin, KA7MIG-Terry Withrow, no call. (yet) It is great to have you guys join us. We want you to feel at home and for heavens sake, don't be shy. Charge ahead! Intro yourself to any and all. Make noise, offer to be a committee member, give us your expertise and above all, enjoy meeting fellow hams and formation of new friendships. Thanks for joining!!!!

UPGRADES & CALL CHANGES

Dan Dobson, N7DAF to extra. John Burgess, N7DCQ from tech to advanced. NICE GOING!
Larry Ogburn: WB7RKC to KC7QV--Roy Nunley: KH6IPX to N7DUJ--Judy Beaton: WA6HZO to KR70..

YOUR LOSS IS NO ONE'S GAIN

From the desk of the Master Technician, Mr. Douglas Dickinson KL7IKX, comes the following treatise on how much output power can be lost in the Wonderful World of Handhelds through the use of a variety of antennae. So, without further a-do.....

ANTENNA TYPE	LOSS
*****	*****
Hand-held, 1/4-wave	unity gain
Telescopic	-3 dB
Helical (ducky)	-8 dB
*****	*****

Hand-held (at an angle)	
Telescopic	-10 dB
Helical	-12 dB
*****	*****
Hand-held (on belt/laying beside you)	
Telescopic (retracted)	-38 dB
Helical	-22 dB
*****	*****

TYPICAL RADIATED POWER LEVELS

starting with hand-held at 100 mw

-3 dB	0.05 watts
-6 dB	0.025 watts
-9 dB	0.0125 watts
-12 dB	0.0063 watts
-15 dB	0.0031 watts
-18 dB	0.00156 watts
-21 dB	0.00078 watts
-24 dB	0.00039 watts
-27 dB	0.000195 watts
-30 dB	0.000098 watts
-33 dB	0.000049 watts
-36 dB	0.000024 watts
-39 dB	0.000012 watts

TYPICAL BUILDING LOSS

Office and high-rise	-30 dB
Shopping centers	-20 dB
Frame construction	-3 dB
Federal Building basement	-50 dB
(KL7LO special operating QTH)	

TYPICAL SHIELDING LOSS

8" concrete block wall	-6 to -8 dB
6" solid concrete wall or floor	
w/o steel reinforcement	-10 to -15 dB
Suspended metal walls	-20 to -40 dB
* Corners in narrow passageways	-15 to -20 dB
*****	*****

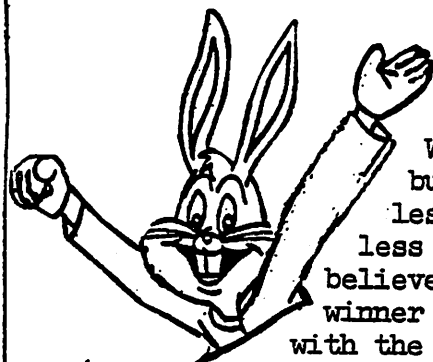
This means that if you are laying your radio down on the car seat beside you and running in the normal low power position, add to that the -30 dB average for the suspended metal walls (car frame) and you have to begin with the -55 dB power level. No wonder you can't reach the repeater with a good signal! It's not black magic, just common sense!

USE A GOOD ANTENNA (1/4 or 5/8 wave) outside the car. Don't expect magic from your little black, blue, red, gray, whatever box. If you have questions, read up in the handbook or ask some one.

73's, Doug KL7IKX

'Anchorage ARC'

A big thanks to John Winn, WB7DXC, for a HEAVY club library donation. A non-member too..

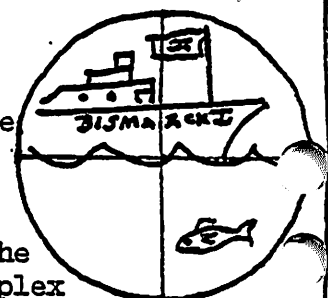


"THE WINNAH"

Another tour of Washington County but this time a lot less mileage and in less time. You won't believe who the clubs winner is! Mark, N7CRQ with the assistance of (and I hate to tell you) W7LJN, took the gold. This was Marks first hunt so it is really a tribute to some good planning and follow through. Nice job Mark. It will be a pleasure to look for you at the next hunt. If LJN is going to help you, make sure he takes a bath first. This bunny hunting gig is not meant to involve any human type senses. Just electronic gear!! Congrats to all for finishing, even if Dale did give the address out..... as it got late, EXM on his 'Puffmobile' (Schwinn) slowed things up a little..

COMING UP

Got another BISMARCK in the works for April 22. It will be on the evening following our meeting. The time is 7:00 pm and the frequency is 146.52. Simplex of course. This fun event is so easy to take part in that it is amazing that the participation level has not been better. What could be easier than to sit in your shack and give a beam heading? At the very least, it would assure you that your rotor is properly set. Give it a try and when it is over, zip on down to Sunshine Pizza Parlor to rap with your fellow club members and check out the 'Bismark Control' map and see how you did. Sure hope to see you at Sunshine. (in Aloha) Maybe we should set up a 90-180 club and have the members pay for the refreshments? Bet that would get some rotors lined up in jig time! CU on 146.52..... DO IT !!!



OREGON STATE CONVENTION

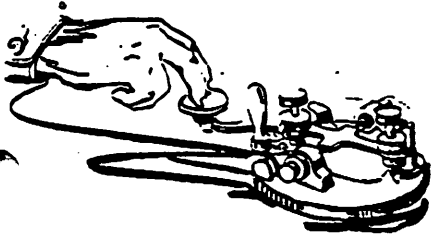
Things are rolling along very well and it appears that we will have a much larger attendance than last years event. Registrations are well ahead of last years and we have had inquiries from as far away as North Carolina and England.

CONVENTION SPEAKER: We got shot down on an astronaut as our guest. Instead, we will have the pleasure of being entertained by one of NASA's most requested speaker, Mr. Richard Underwood. Mr. Underwood is in charge of training the spacemen in photographics. All of those media pics of outer space are a direct result of Mr. Underwoods work. So what will the banquet attendees hear and see? We will enjoy about an hour of outer space slide pictures which will be narrated by Mr. Underwood. The slides are from his private collection and are the cream of the crop. Most of them have not been seen by the general public. We are hoping that we can schedule him for a seminar and also to have a NASA booth available. This should be a highly interesting program, not just for the scenic value of the space photos but as an informational treat in regard to the NASA program as a whole.

ARRL SPEAKER: All the way from Newington, Connecticut! Mr. Richard Palm, K1CE, will have his turn at the podium. Rick, as he prefers to be called, writes the 'Washington Mailbox' section of QST magazine. He is very UP on where our hobby stands, both with Washington politicians and the FCC. Rick will be available at the ARRL booth as well as at the ARRL forum to field questions in regard to the present and future priveleges that we as amateurs enjoy.

FCC TESTING: It has been approved by the Portland office!! If you desire to take a test you MUST FILE A FORM #610 NO LESS THAN TWO WEEKS PRIOR TO THE CONVENTION!!!! You will be issued a test TIME by the FCC. NO walk-ins will be allowed... Hope that other newsletter editors will make this known and ASAP.

CONVENTION MOTEL: If you have made reservations at the LANDMARK MOTOR INN, you MUST pay one nights lodging by MAY 1 to hold your room. Don't lose your room by putting it off! Cancellations are OK with 48 hours notice. (heaven forbid) We are brewing up an excellent convention and we are hoping to see ALL members in support. If not as a worker, at least as a monetary contributor!! CU THERE????



Use that code!

I have been a licensed Amateur Radio operator since January of 1975, and presently hold the Advanced Class license. From my years of experience and association with Amateur Radio, I have observed that a large segment of amateurs learn and work CW for the basic purpose of generating enough proficiency to pass their General Class license; once this is achieved, they settle into phone use and never bother to keep their CW proficiency healthy and well. Erosion begins to take place, and in a few years, the operator's CW becomes obsolete. He has now lost the CW proficiency he worked so hard to gain.

What a pity! The loss of CW automatically creates a vacuum which results in a loss of much of the world of Amateur Radio. Because of this chosen course, the operator has limited his communication potential with much of the world, and has partially lost the capability of helping in a potential emergency situation; under certain circumstances, this may mean the difference between life and death.

We all know that low power, simple unphosphated radio equipment, basic wire antennas, and adverse atmospheric conditions are more forgiving to the CW mode than they are to the phone mode. (Basically, a CW signal mode may be intelligible when a phone signal mode is not.) We also know that many areas of the world, particularly developing countries, have many amateur operators working under the above restrictions. From my QTH in San Antonio, Texas, I have had good intelligible QSOs with stations in Japan and Australia when these distant stations were operating with 10 watts, using the CW mode. Also, many foreign governments restrict the amount of power a radio amateur may use to a low level.

I write this correspondence out of a sense of duty to encourage all Amateur Radio operators to operate CW enough to stay proficient in the mode. By staying proficient in both CW equipment and in operating expertise, you will have a change of pace from your preferred mode of operation — whatever that mode may be — and you can have a lot of fun in the process. Along with these plus factors, I know you will have the potential to help should an emergency come your way.

Sincerely,
DAVID Y. OBERLE, WB5NMV
San Antonio, Texas

YL Radio League

Ruth Jank, K5OPI

YLRL (Young Ladies Radio League), organized in 1939, is the only organization of international scope exclusively for women Amateur Radio operators. Membership — as of 1 January 1982 — was 1,560, of which 240 are DX YLs in 30 countries.

The League is non-profit, and encourages its members to improve their knowledge of electronics and to enhance their Amateur Radio operating skills. Dues are \$6 annually; the fiscal year begins 1 March. Their official publication is *YL Harmonics*, published bi-monthly. News from YLs all over the world, contest dates, and YLRL-sponsored certificates are listed periodically, as are listings of various YL nets. Once each year a directory is published which lists call signs and addresses of members.

YLs who wish to join are requested to mail \$6 for first year dues to: Jerrie Stonier, K6INK, 9945 Lull St., Burbank, CA 91504.

OUTSIDE EVENTS

April 24—Spokane SWAPFEST

May 1--2—Yakima HAMFEST

May 8--9—Clark County FAIR

June 4--6—OREGON CONVENTION

July 17--Lane County FAIR

Aug. 6--8—Yellowstone ARRL
Division Convention

Aug 14--Tacoma HAMFAIR

Lots of fun for the summer travelers. Not to mention a heavy spring schedule. The Yellowstone event is the 50th and is this years 7 land ARRL Division site. Take the kids to JELLYSTONE and have a GREAT time.....

INTERFERENCE BOO-BOO

The FCC has adopted docket #20990, which has been in the hamper since 1976. The commission agreed to permit the operation of burglar alarms, garage door openers and various other similar devices on most frequencies above 70 mcs. Today it concerns the Amateur Radio Service because of the RFI to and from such devices. Amateurs are suffering from interference caused by these devices and many citizens are concerned with the opening and closing of their garage doors as well as setting off of burglar alarms by amateur radio operations. It seems that the commissions engineering staff slipped a cog in this docket. Certainly, sufficient study should have proven adoption of the docket. A petition has been filed to stop this blatant proposal by prohibiting the operation of these devices in such amateur bands as 144, 220 and 420 mcs. At the present time, cable television is causing serious interference problems to amateur radio operations. In theory, cable systems are not supposed to radiate. This is not true. Channel E, of cable TV, operates within the 144 meg amateur band and is causing interference problems. This RFI conflict is severe and many communities have threatened "Public Nuisance" lawsuits, as well as attempts to get the city councils to pass laws prohibiting amateur radio from operation and also making it illegal. A petition for rule making has been filed with the FCC asking the commission to prohibit cable TV systems from operation on amateur radio frequencies. Amateurs who experience such interference both to and from a cable system are asked to immediately get in touch with the ARRL and to file a formal complaint with the FCC.

SUPPORT YOUR HOBBY-----JOIN THE ARRL



SAFETY FIRST

- DO NOT ride in automobiles as they cause 20% of all fatal accidents.
- DO NOT stay at home because 17% of all accidents occur in the home.
- DO NOT walk across streets as 14% of all accidents are pedestrian related.
- DO NOT travel by air, rail or boat because 16% of all accidents are the result of these activities.
- ONLY .001% of all accidents occur at amateur radio club meetings.

Obviously, the safest place to be on the third Wednesday of the month is at an OTVARC meeting. (arns) Get off your duff and be a safe person. Attend meetings!!

KITTY LITTER

Cary Haag, KA7KDB, was recently engaged in attempting to up his code speed so as to become a general class operator. Many hours on the key were spent and along with it, many 807's were consumed. Now, when you get involved in long CW QSO's and mix it with the 'brew', you will have a problem. Just as alcohol and gasoline don't mix, neither does beer and CW. To solve his particular problem he came up with a box of 'kitty litter' which was installed in a strategic place under the operating desk. A very neat idea! It might be suggested, for those of you in the same situation, to use a coffee can. An empty can is much cheaper than a cat litter and quite sure that Mrs. Olsen won't mind, so long as you have used the coffee first! Use a 1, 2 or 3# can, dependent upon your (ahem) capacity. Sure hope that this non-technical operating tip is of value and we thank Cary for the very original idea. We need more newsletter contributions like Cary's!!

10-10 INTERNATIONAL

#1-HISTORY

Happy Birthday to 10-10 International in 1982, as it was twenty years ago this year that 10-10 was born and today we proudly boast of over 35,000 members.

The organization was the brain child of the sixties due to the loss of propagation on ten meters. With the loss, amateurs abandoned ten meters in droves to seek greener pastures. Being good amateurs for the few remaining on ten meters, they felt that F. C. C. would reassign this spectrum to other services. So, in 1962 Irv K6WFO formed the nucleus of the new 10-10 group. They met daily, except Sunday, at 10 A:M local PST (1800Z). The saying of the day was, "See you on 10 at 10" thus the 10-10 started growing.

To get your very own 10-10 number for life is relatively easy. Send \$4.00 for annual dues and \$1.00 for Registration fee (\$5.00) total to Willie Madison WB7VZI 10512 W. Butler Dr. Peoria, AZ 85345. Requirements are 10 contacts with hams with 10-10 numbers. List in serial order of 10-10 numbers, call, handle, QTH and date worked. Novices get a real bargain- they only work 5 contacts with numbers and also no \$1.00 for registration fee. How about that for a real bargain.

More next month about awards, contests, certificates and our local City of Roses Chapter of 10-10 International.



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Neil-WA6KLA
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'Mechanix Illustrated'-some 77, 78, 79 & 80.

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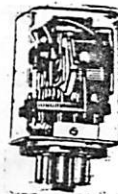
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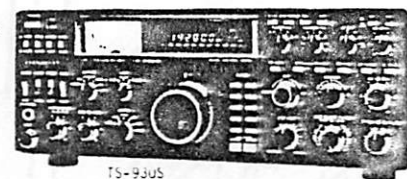
Kenwood Day - April 17th, 9 - 5:00



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Kirke Johnson
WB7PXZ

The cable article was the result of a carefully monitored test which was based on 25 watts of input. The article is courtesy of Worldradio and the testing was done by Gordon West, WB6NOA.

This is an OTVARC reprint taken from the December, 1980 newsletter. Hope you find it of interest.

Cable Description Watts output

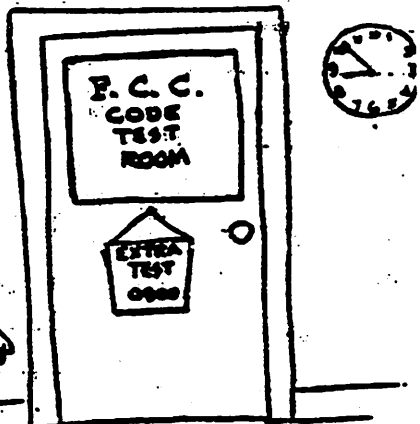
- 75 feet of RG-8/AU foam cable w/soldered connectors 20 watts
- 75 feet RG-8/U foam exposed to marine environment and sunlight for three years; swedged connectors 13 watts
- 75 feet cheap CB coax, RG-8/AU with soldered connectors 15 watts
- 75 feet new RG-8/AU coax with crimped connectors 17 watts intermittent
- 75 feet RG-8/X (mini), new, w/soldered connectors 17 watts
- 75 feet RG-8/X cable exposed to mast mounting 15 watts
- 75 feet RG-58/AU foam coax, brand new, and priced expensively 14 1/2 watts
- 75 feet RG-58/AU from local CB radio chain store, 75 percent Braid 9 watts
- 75 feet RG-58/U CB coax found coiled in a closet, soldered connectors 9 watts

MORE UPGRADES

Dan Dobson, N7DAF to EXTRA

Wally Boleen, N7CFN to ADVANCED

Nice work guys!! Have a ton of fun on HF with the new 'interim PO'.





NEWS

BULLETIN

* FIELD DAY NEEDS *

Batteries ----->	10	Generators ----->	3
Solid state rigs -->	5	Heavy duty line cords	400'
Jumper cables ----->	8	Gas cans and (oil)-->	
Battery chargers -->	4	Antenna switches -->	4
Folding chairs ----->		Folding tables ----->	2
Lanterns (gas/prop.)	5	Lamps (110v) ----->	4
Plywood for tables-->	3-2'x5'	Large tarps ----->	W873TC W877IS and ??
Heaters and fuel -->	2	Tents ----->	1
Ground rods/wire -->	4	Misc.Tools ----->	
Coax cable(long)---->	1000'	Coax cable(short)-->	
Keyers ----->	2	Mics ----->	
Headphones ----->		Hand helds(2 meter)-->	
PA System ----->	1	2 Archers ! ----->	KC7BE W875IC W7C2U & ?
30 Pencils ----->	Done	8 Note pads ----->	Done
80# fish line ----->	Done	Clip boards ----->	Done
Misc.stuff:		Heavy Rope- Long lengths	LOTS

Tools --- Soldering irons --- misc.wire --- Volt/ohm meters --- Tape ---
Waste baskets

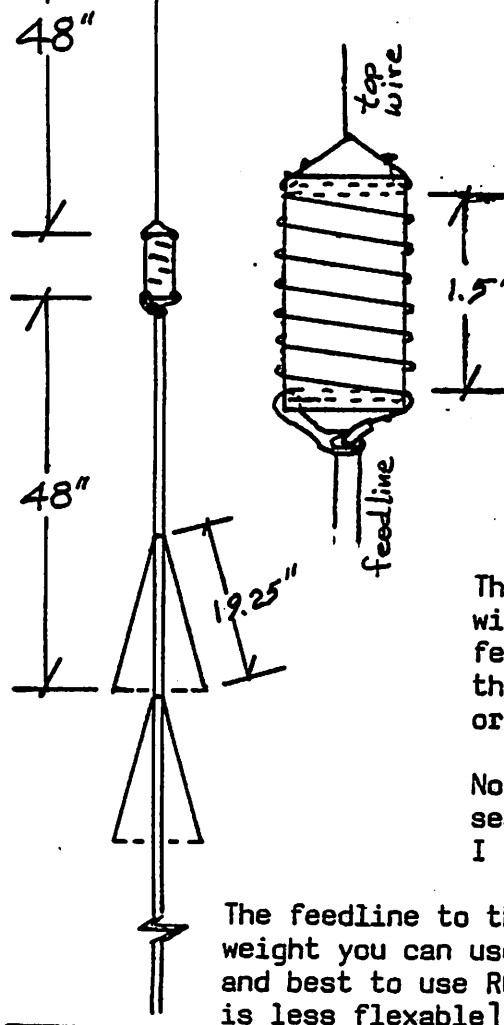
Most of all: CO-OPERATION from DEDICATED HAMS

FIELD DAY INFORMATION

It is difficult to describe the kind of fun that we have on field day. How do we describe to the new members or to the long time ham, who may have been soured on field day because of a previous experience with another club? I guess we just tell it like it is! To start, we have a club dinner on Saturday nite, a club breakfast on Sunday morning and all at a CHEAP price. On Saturday evening we also have a BINGO party for the non-operators and after you have won your Bingo prize, we go outdoors and have a marshmallow roast. While all of this is going on, our intrepid operators are hard at it to make points in the contest. If you would like to take part in a volleyball game, play horseshoes or give your fishing gear a workout, show up. It is fun for the ENTIRE family. ALL details in MAY newsletter.....

The W7CLU BACKPACKER 2 Meter 3dB gain Vertical Antenna

The wire is formed into a loop and soldered at the top with a loop of fish line through it acting as an insulator. Be sure to seal and tape any exposed wire or braid. The top wire can be any flexible insulated wire (I used RG174/U with the braid and center conductor connected together).



The center coil is made from $\frac{1}{2}$ " CPVC pipe cut as shown with holes drilled through both sides at each end. Wind with 7 turns of wire (again like RG174/U) with the lower end connected to the feedline center conductor only. (This tunes approximately to the FM portion of the band. For you experimenters wind with 6 turns and adjust to resonance with a good quality 1 to 11 pf cap- properly sealed against the weather.)

The decoupling sleeves are made of four 19.25" wires connected to the outer braid of the feedline at their top and held out by a ring at their base (this ring can be either conductive or nonconductive-like a cut up 2 liter bottle).

Note: All exposed joints should be properly sealed and taped over with good quality tape. I like the green stuff called Coax Seal.

The feedline to the rig can be any length. For minimum weight you can use RG174/U but better to use RG58C/U and best to use RG8/M or RG8/X foam [but weighs more and is less flexible].

The SUPER 5dB Fixed version

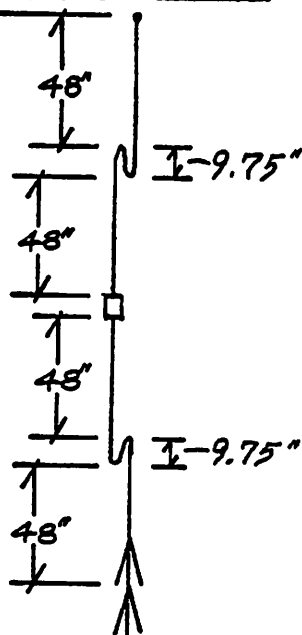
Top mounting as above

Phasing loops are made of 27" of wire (or line) folded and held with nylon cable ties - wire must be insulated.

Center coil as above

Decoupling sleeves as above

Use as high quality feedline as possible RG213/U or foam RG8/U as a minimum



"HAPPY HAM"



#95 Bob Tommy N7CFM Technician

Bob uses a Kenwood TS 520S for his CW work and has a long wire up for his HF rig. A KDK is used for 2m fun and games. His antenna for 2m is an 11 element job and it is up on a 40' telephone pole which, by the way, has a platform to stand on so as to make it easy to work on antennas. How do you get up there Bob?

Bob is a building manager for the Neighbors of Woodcraft in Portland. He says that his second hobby is helping people. His club interest is helping on the contest committee.

"HAPPY HAM"

#32 Steve Danielson N7DNN General

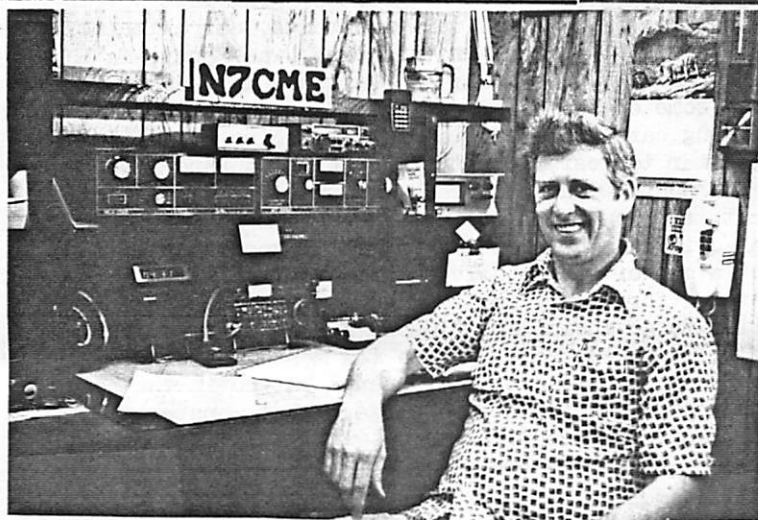
Steve has a beautiful Drake setup on HF. The antenna system is a TH6 at 60'. He also uses a Hy-Gain vertical on occasion and dipoles for 40 and 75. His 2m rig is an Icom 290. Steve is an avid DX'er. He lists his other hobbies as woodworking and photography. As a matter of fact, he is a Blue Ribbon winner at color shows. Steve is an asphalt estimator by trade. His contribution to the club is being a member of the 'Crazy Quad' which is our raffle committee.



"HAPPY HAM"

#82 Dennis Fisk N7CME General

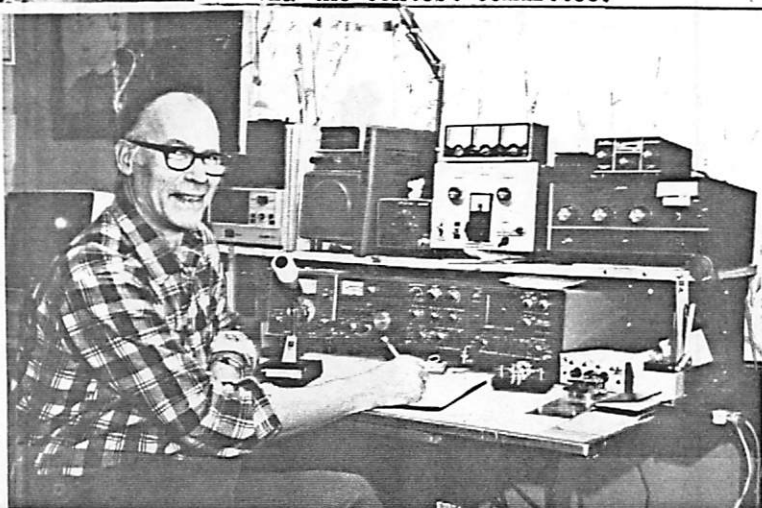
Dennis's HF rig is an Icom 720, which was last summers Convention grand prize. Antenna system is a Tri-X tower at 50' with a Wilson beam and inverted V's. He uses a Dentron amp and tuner. Likes DX and rag chewing. His 2m rig is an Icom 255A. The shack is nicely done in his own hand and is very well equipped. Dennis is a welding supervisor when not busy chasing DX. His other interest is zipping down the highway on a crotch rocket. He is helping out the club via the contest committee.

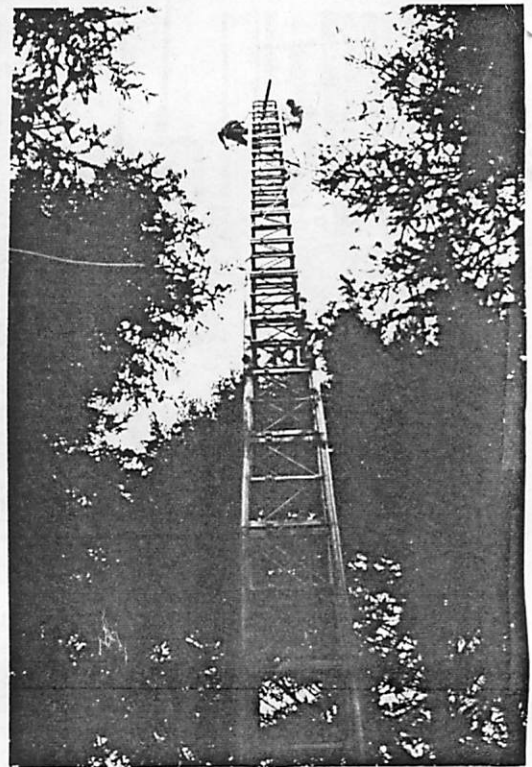


"HAPPY HAM"

#89 Ralph Karls WB7VGS Advanced

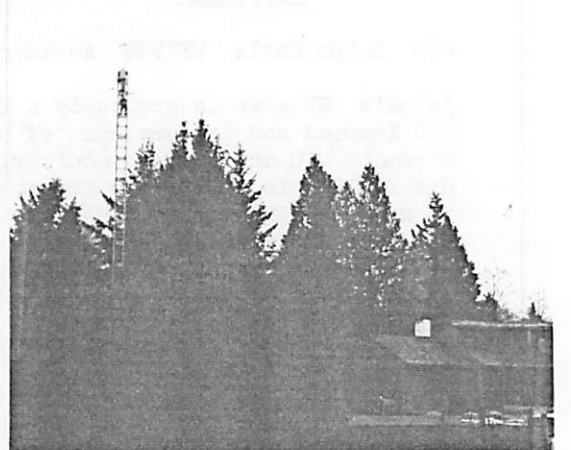
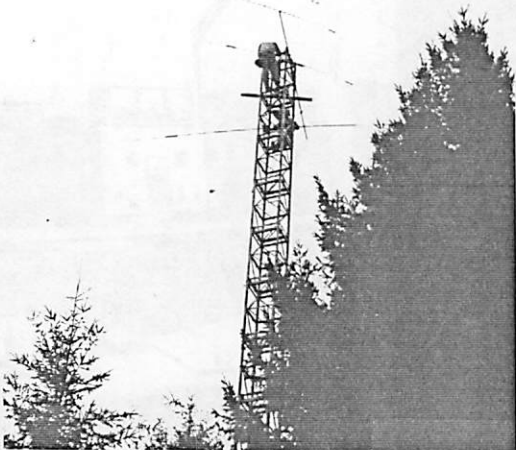
Ralph's HF gear is obviously a TS 820 Kenwood and is complemented by a remote VFO and station monitor. His TH6DXCC is at 50' and the tower is draped with dipoles. He uses an old Swan amp when needed. Quite sure he works but missed it. Ralph has a scattering of test gear and as you can see by the pic, is active on CW. His other hobby is an Apple computer, which can be seen in the corner. Ralph is an active member of the club technical committee. You will see him at 'field day', for sure..

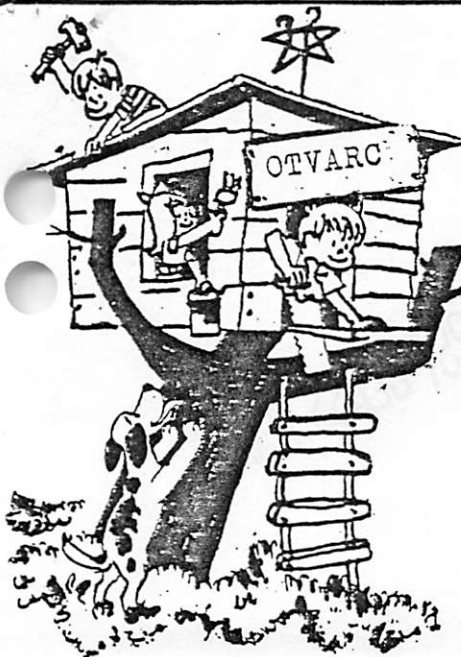




THIS IS A TOWER ??

Bet you thought it was the corner structure for a new high rise office building! You were not far off as this monster is a section of crane which probably was used to put together a few buildings. It is owned by Washington County Circuit Court Judge, Greg Milnes, W7AGQ. Greg gave us that great program last November and as he had suffered antenna damage in one of our windstorms, our climbing crew decided to come to the rescue. The crew, in this case, was Randy, KA7HJT, Roger, K7RXV, Cary, KA7KDB and Mark, W7CLU. Cary and Mark wisely decided to stay on the ground and handle some of the safer duties. Cary's picture is not shown as he was very busy taking care of 807 residue. This being a family type newsletter, it was thought better to resist temptation. Anyhow, Randy and Roger were up in the air for several hours without a break and when the day was done, the antenna was working great, the tower had not collapsed from so heavy a load and, despite a constant drizzle, the crew was in pretty good shape. A small touch of frostbite but a cup of coffee solved that problem. You may be wondering why such a large tower for a very small antenna. Greg has the plan to have a custom built section to go inside the BIG one and go up to around 200'. When that is done he will put out some \$ for a few monobanders. The tower should hold them as he has a couple of Sherman tanks buried in the base of the structure. Sure wish that I didn't live so close. That monster is three blocks away! Maybe a time share plan????





PROGRAM

The program this month is being given by Mr. Don Johnson, W7RFV. He is a gentleman of great humor and wit. His subject is the development of SSB. Many of us newer hams don't give the subject of AM radio modes much thought but we should realize that at one time, that is all there was. Imagine yourself hamming away for 10, 15 or 20 years and all of a sudden some jerk says, 'Ok guys, we have this brand new mode for you. Throw out all of your outdated gear and start over.' There was a lot of rebellion both in the amateur ranks as well as branches of the military and some rather humorous stories are to be heard about it all. Let's give Mr. Johnson a good old OTVARC welcome and turn out in record numbers for his presentation. This could turn out to be a side-splitter!

LAST MINUTE UPGRADES

Don Branda, N7DDK to advanced. Doug Bull, N7CDI to advanced. Hats off to you guys! Long live Dick Bash!! Also the ARRL and mom and pop.....

An appeal to all members: If you have ANY change that would effect our club rosters accuracy, PLEASE let me know ASAP. We strive to keep up to date but cannot do it without your input. Any changes, call me. 640-5456, WB7SIC.

RESULTS-APRIL ARRL CD PARTY

The club turnout for this fun event was for the birds!! Too many people are not making note of what is going on. If you don't have a calendar, buy one! When you read the newsletter and run across an upcoming event, lean over and make a note. If you have a prior committment, fine. If you just plain forgot, may a camel-----, There is too much time spent in arranging club activities, AT YOUR REQUEST, to let a poorly attended event such as this one go by without some strong comments. We have a host of newer members that are dying to get to know some of the group. Where were you? We have some of the long-time members who complain that they don't know anybody anymore. Who's fault is that? We have so many things going now that it is difficult NOT to get to know each other better. Got to raise heck at least once a year so this is it for 1982. Off the soapbox and on with the subject.. The few who showed up made about 218 contacts and it is suspicioned that some of them spent too much time at playing pool on N7CME's table. Last year we made 367. The word is that the band conditions were bad. Oh well, at least they had fun. Better luck next year. Many thanks to Dennis for the use of his call and shack.....

CLUB DINNER

We had about 50 plus in attendance at our clubs first dinner outing. Not a bad turnout for a first time function. Doc, W7GWC and his wife Maye came all the way from Seaside to chow down at Todd's in Tigard. Guess we better do it again? Might get LJ from LA or ETR from Utah to show up. A big thanks to Mona and her social committee for coming up with the dinner.....

CU ALL AT THE CLARK COUNTY HAM FAIR ON MAY 8 & 9. WE WILL HAVE A BOOTH THERE

Editor: Al Berg, WB7SIC

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Copy: Dennis Boyd, KC7BE

FIRST CLASS MAIL

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FIRST CLASS MAIL

LETTER TO THE EDITOR

Dear Sirs, I am writing to you about the article in the 19th issue of the Journal. I am sure that you will find it of interest. I am sure that you will find it of interest. I am sure that you will find it of interest.

LETTER TO THE EDITOR

The article in the 19th issue of the Journal is of great interest to me. I am sure that you will find it of interest. I am sure that you will find it of interest. I am sure that you will find it of interest.

LETTER TO THE EDITOR

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